

Abstract

A flat type light condensing device used in an optical path device comprises a hollow frame whose two ends have rectangular openings and a plurality of lenses arranged in the frame. The flat type light condensing lens is used in a scanner to reduce the occupied space in an optical path device and also facilitate the design. Moreover, only data of a single line are captured to reduce unwanted intermixing of data from other lines for enhancing the MTF of the scanner and further letting the brightness be more uniform when imaging.